TOP SECRET

PIR

PHOTOGRAPHIC INTERPRETATION REPORT

VITAL RECORDS COPY

DUAL HEN HOUSE B
SITE 13
SARY-SHAGAN
ANTIMISSILE
TEST CENTER
USSR

25X1

APRIL 1967

COPY 116

6 PAGES

25X1

Declass Review by NIMA/DOD

GROUP 1: EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION

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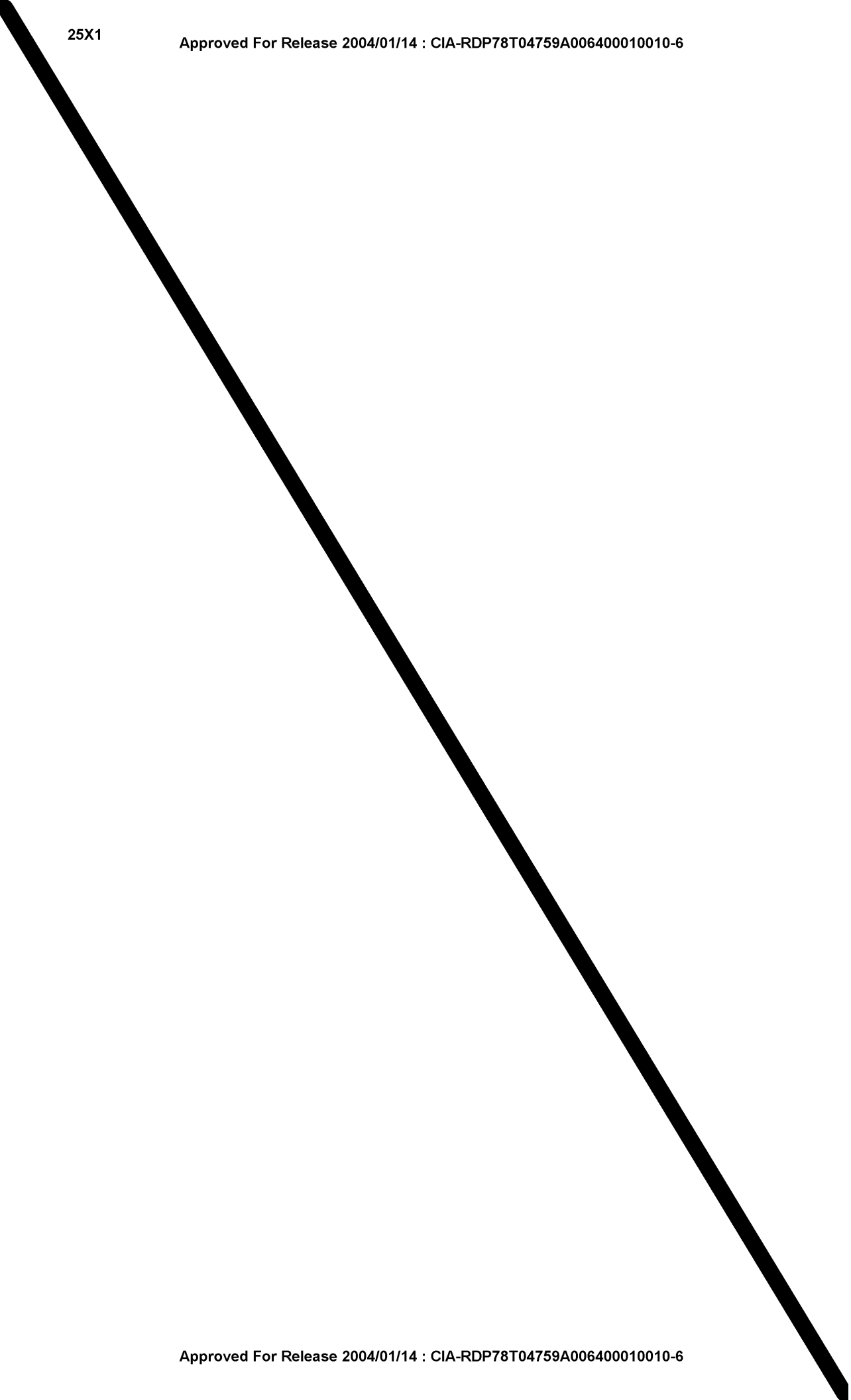

PREFACE

This report deals primarily with Dual HEN HOUSE B at Site 13, Sary-Shagan Antimissile Test Center, USSR, the most advanced of the 4 "fat boy" HEN HOUSEs currently under construction in the USSR. Construction on the other 3 "fat boy" HEN HOUSEs, Dual HEN HOUSE C at Site 13 and Dual HEN HOUSEs B and C at Angarsk, is progressing in a pattern very similar to the various construction stages at Dual HEN HOUSE B, Site 13. In short, all of the "fat boy" HEN HOUSEs will probably be similar to Dual HEN HOUSE B at Site 13, when completed.

DISCUSSION

The most significant development at Site 13, Sary-Shagan Antimissile Test Center (SSATC), in recent months has been the advanced construction on Dual HEN HOUSE B. Beginning in [redacted] the 60- by 40-foot sections previously laid horizontally over a steel framework on both sides of the central conduit (feed-associated structure) are being raised to form V-like trough antenna structures.

At the left (south) antenna structure, all 40 sections (20 on each side of the central conduit) were raised, the south end enclosed, and a covering emplaced over the top by early [redacted] (Figure 1). Structural details are shown in the accompanying drawing (Figure 2). The covering emplaced over the top of the V-like trough is probably the antenna face, which has a boresight elevation angle of [redacted] It compares favorably with the black antenna faces seen on the "thin boy" Dual HEN HOUSEs at both Site 13 and Angarsk. However, each of the "thin boy" antenna faces observed so far has 43 panels along the black face, while the left antenna face at Dual HEN HOUSE B has 40 panels. The width of these panels at both types of HEN HOUSEs averages [redacted] Lateral striations along the face of both types of HEN HOUSEs (visible since snow melted) indicate that each panel is subdivided into 7 probably equal segments, each approximately [redacted] [redacted] OAK 1/ incorrectly reported each panel subdivided into 6 segments at the left antenna face at Dual HEN HOUSE B.

At the right (north) antenna structure 2 previously horizontal sections were first observed raised in early [redacted] No covering had been emplaced over the 15 sections observed raised on [redacted] A boresight elevation angle of [redacted] has been determined for the north antenna, assuming that the face will rest on the raised sections.

Boresight elevation angles (±5 degrees) now determined for the [redacted] boresight azimuth HEN HOUSEs at Site 13 are:

Dual HEN HOUSE A, left antenna (south) - [redacted]
Dual HEN HOUSE A, right antenna (north)
Dual HEN HOUSE B, right antenna (north)
Dual HEN HOUSE B, left antenna (south) -

Comparison of the spacing of the original rows of footings at Dual HEN HOUSEs B and C at both Site 13 and Angarsk suggests that the final boresight elevation angles of the other 3 "fat boy" HEN HOUSEs probably will be similar, if not identical, to those determined for Dual HEN HOUSE B at Site 13.

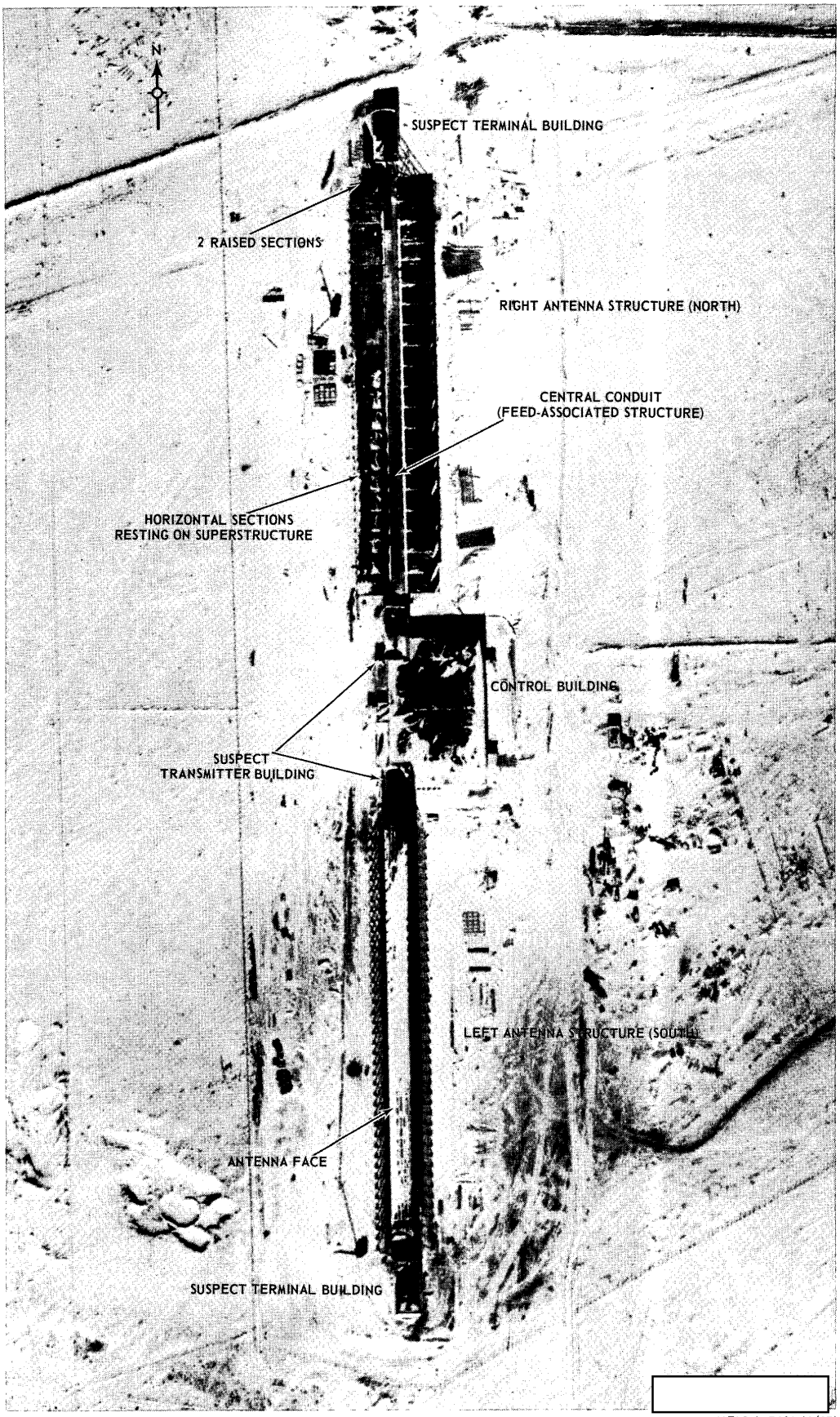

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FIGURE 1. DUAL HEN HOUSE B, SITE 13, SSATC.

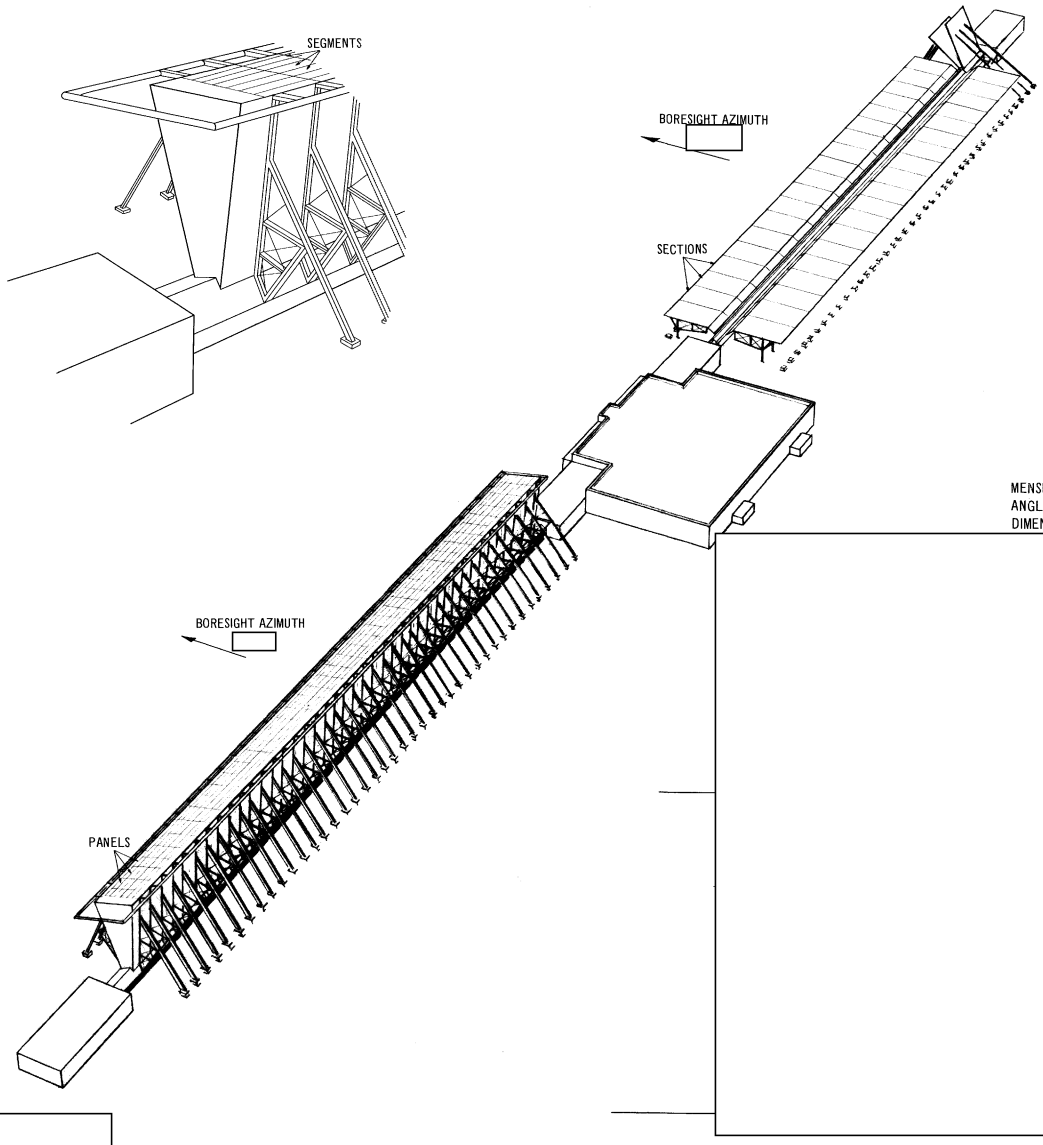

FIGURE 2. DUAL HEN HOUSE B, SITE 13, SSATC. Details shown in insets.

REFERENCES

[redacted]

25X

DOCUMENT

1. NPIC. [redacted] *Part II, Attachment 6,* Feb 67 (TOP SECRET [redacted]) 25X1

RELATED DOCUMENTS

NPIC. [redacted] *Site 13, Sary-Shagan Antimissile Test Center, USSR,* Nov 66 (TOP SECRET [redacted]) 25X1

CIA. [redacted] *Anti-satellite/Space Tracking Radar Complexes Mishelevka and Sary-Shagan, USSR,* [redacted] 25X1
Oct 66 (TOP SECRET [redacted]) 25X

REQUIREMENT

CIA. C-DI5-82,750 (revised)

NPIC PROJECT

11023/66 (partial answer)